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# P.I. NOTES

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CIA IMAGERY ANALYSIS DIVISION

PI NOTES, A PUBLICATION OF CIA/IMAGERY ANALYSIS DIVISION, HIGHLIGHTS SIGNIFICANT INTELLIGENCE ITEMS DERIVED FROM PHOTOGRAPHY, AS WELL AS CURRENT DEVELOPMENTS IN THE "PI" FIELD.

P.I. NOTES 17/66

"PI NOTES" was not issued for the week of 3 December. This issue covers a two-week period.

IAD DEVELOPMENTS

During the period 31 October - 27 November 1965, 134 requirements were received from the following requesters:

DDP	- 26	ORR	- 39
OTR	- 1	OCR	- 1
FMSAC	- 11	OBI	- 24*
OSA	- 2	OCI	- 2
ORD	- 1	CGS	- 2
OSI	- 25		

\*Includes 16 for AMS Map Program.

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During the third quarter of this year, IAD received 120 requirements from the DDP and completed 94. This work required [REDACTED] per cent of the total PI man-hours expended within the division during that period.

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The IAD/DEB (Development Evaluation Board) visited the USAF Rome Air Development Center (RADC), Rome, N.Y., on 24 November to receive a briefing on the USAF Mobile Wing Reconnaissance Technical Squadron (MWRTS). The DEB group evaluated the equipment currently installed and under development for use in the MWRTS for its possible application to the needs of the IAD. The trip resulted in a very useful exchange of information on sophisticated photo-exploitation equipment and an invitation for IAD PI's to visit the RADC to participate in an operational exercise applying the MWRTS equipment to IAD's exploitation requirements. (SECRET)

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CIA IMAGERY ANALYSIS DIVISION

IAD has recently received two major items of photo-exploitation requirements.

An [REDACTED] Versatile High-Performance Stereo Viewer (cost [REDACTED] was received on 8 December and is presently being assembled and checked out for operation. This device permits stereo viewing from two rolls of film, thus eliminating the present necessity of cutting film into chips and mounting the chips into a stereogram prior to stereo study. The viewer offers a 1.5X to 135X magnification range, 360-degree image rotation capability, independent image reversion, crossover of the stereo channels, binocular monoscopic viewing and 600 lines per mm resolution. These features are made possible by the utilization of fiber optics cables to transmit the image from the objective lens to the eyepieces.

An [REDACTED] Stereo Chip Comparator (cost [REDACTED] was received in November. This is the first production model of a device which has been in use in IAD since July 1964 in prototype form. The latest version incorporates a new optical head and motorized drives, which grew out of the operation of the prototype. This device operates on-line to the UNIVAC 490 computer installation in NPIC, giving the operational PI the ability to make rapid, accurate measurements from KH photography on a real-time basis (the process of making one measurement on KH photography with the slide rule and other conventional mensural equipment requires some 2000 computations).

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A number of geological maps of Communist China were obtained by ABCB/IAD recently in connection with uranium mining searches of that country. Color reproductions were made in the form of prints (20 x 16 inches) and vugraphs. The vugraphs will be placed in the files of OSS/IAD. The negatives will be on file in the NPIC Map Library, should reproductions be desired by other components.

The maps (1:1,000,000) and areas on file are:

1. Geological Survey of China, NG-48, Kunming, May 1950  
(24-28N 102-108E)
2. Geological Survey of China, NF-49, Canton, Jan 1948  
(20-24N 108-114E)
3. Geological Survey of China, NI-50, Nanking, Jan 1948  
(32-36N 114-120E)
4. Geological Survey of China, NH-50, Hankow, Jan 1948  
(28-32N 114-120E)

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5. Geological Survey of China, NI-48, Tienshui, Feb 1950  
(32-36N 102-108E)
6. Geological Survey of China, NJ-50, Peking, Feb 1950  
(36-40N 114-120E)

NOTE: All of the above maps are unclassified. (SECRET)

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NORTH VIETNAM

Analysis of Missions [REDACTED]

[REDACTED] reveals the rapid reconstruction of three bridges on a segment of the Vinh/Dong Hoi meter-gauge rail line rehabilitated by the North Vietnamese between [REDACTED]. The bridges, which were reconstructed specifically for rail traffic in a nine-day interval, are located at: Dong Bai (18-09-30N 105-43-20E), La Khe Thon (18-03-50N 104-49-20E), and Bai Due Thon (18-03-20N 105-50-20E). The deck-type wooden beam bridges supported by wooden lattice towers appear to be capable of supporting the miniaturized rolling stock seen in the area on the above missions. (CONFIDENTIAL)

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CHINA

KEYHOLE Missions [REDACTED]

[REDACTED] reveal active construction on the Kuei-yang/K'un-ming railroad. The line has been completed from Kuei-yang to 30 nautical miles west of An-shun (26-14N 105-27E) and from K'un-ming northeastward to 26-15N 104-08E, leaving a gap of approximately 130 nautical miles. Completion of this route will connect Yunnan Province with China's main railroad network without using the vulnerable North Vietnamese railroads. (TOP SECRET RUFF)

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USSR

The current count of confirmed and probable ICBM launchers at the 25 deployed launch complexes, including those under construction, totals 415. These are broken down by missile systems as follows:

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CIA IMAGERY ANALYSIS DIVISION

Missile System/Launch Area Configuration	Number of Launch Sites	Launchers Per Site	Total Launch Positions	Total Launchers
			By Type	
SS-6/IA	4	1	4	4
SS-7/9 II A	5	2	10	197
II B	29	2	58	
II D	30	2	60	
III A	23	3	69	
SS-8/ II C	7	2	14	23
III B	3	3	9	
Large Single Silos/III C	73	1	73	73
Small Single Silos/III D	118	1	118	118
Totals	292	-	415	415

In addition there are 50 launch positions at the Tyuratam Missile Test Center (either complete or under construction) and 6 SSM launchers of undetermined function at the Plesetsk ICBM Complex. Of interest is the fact that of the 50 launchers at Tyuratam, 29 are silo-type launchers.

(TOP SECRET RUFF)

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25X1D The new road near Instrumentation Site 2, Sary Shagan, first seen under construction in [REDACTED] is believed to serve a possible missile launch position under construction. A report on this activity, currently being prepared, will contain a complete description, chronology, mensuration, and azimuths.

(TOP SECRET RUFF)

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An Upper Atmosphere Research Station near Zvenigorod, USSR, has been visited numerous times by U. S. scientists. A suspect location for this station from KEYHOLE photography is 55-42-30N 36-49-00E, 2.2 nautical miles southwest of Zvenigorod and 27.5 nautical miles west-southwest of Moscow. The station is reported to contain three fixed spectrographs (infrared, visual, and ultraviolet), a wide angle auroral camera, three buildings, and support for 20 personnel.

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